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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,945	03/19/2004	Kenichi Shimooka	TSM-37	7176
24956 7590 01/22/2008 MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C. 1800 DIAGONAL ROAD			EXAMINER	
			PERUNGAVOOR, VENKATANARAY	
SUITE 370 ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			2132	
			MAIL DATE	DELIVERY MODE
			01/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1		Application No.	Applicant(s)				
•		10/803,945	SHIMOOKA ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Venkat Perungavoor	2132				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHOWHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be ti d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)🖂	Responsive to communication(s) filed on 18	November 2007.					
·	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Dispositi	on of Claims						
4)🖾	Claim(s) 7,9-11,14-17,19 and 21-28 is/are pe	ending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	Claim(s) <u>7,9-11,14-17,19 and 21-28</u> is/are re	jected.					
•	Claim(s) is/are objected to.	lor election requirement					
8)[Claim(s) are subject to restriction and	or election requirement.					
Applicati	on Papers	·					
9)	The specification is objected to by the Examir	ner.					
10)	The drawing(s) filed on is/are: a) 🔲 ac	ccepted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the l		· ·				
Priority u	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreig ☑ All b)☐ Some * c)☐ None of:	gn priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority docume						
	3. Copies of the certified copies of the pri		ed in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Geo the attached detailed office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summary					
3) Inform	, -						
Pape	r No(s)/Mail Date	6) 🔲 Other:					

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 7, 10-11, 14-17, 19 & 21-28 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 7, 9-11, 14-17, 19, 21, 24, 26 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent Publication 2003/0135783 to Martin et al.(hereinafter Martin).

Regarding Claim 7, 10-11, 14, Martin discloses the computer system including a host computer coupled to and separate from a storage system which has a first volume(Fig. 2 item 206) for storing data received from the host computer and a second volume(Fig. 2 item 210) that is a pair of said first volume and that stores data that is replicated from said first volume, and a storage control unit(Fig. 2 item 204) for controlling the data replication from the first volume to said second volume, a data protection apparatus coupled to and separate from the host computer and the storage system, comprising: an event detection unit(Fig. 22 item 2204) for detecting an event occurrence see Fig.

23; a replication stopping unit(Fig. 2 item 202) for instructing said storage control unit to

stop the replication of data of said first volume to said second volume, when said event

detection unit detects an event see Par. 0043; and an illegal intrusion detection unit for

detecting an illegal intrusion into said host computer; wherein said event detection unit

receives a detection of the illegal intrusion from said illegal intrusion detection unit(Fig.

22 item 2208) see Par. 0094; and when said event detection unit receives the detection

of the illegal intrusion, said replication stopping unit instructs said storage control unit to

stop data replication from said first volume to said second volume that is the pair of said

first volume see Par. 0093.

Regarding Claim 9, 19, 21, 24, 26 Martin discloses the virus detecting unit detecting the

virus and the event detection unit(MIA) receives this notice and stops the replication see

Par. 0043 & Par. 0095.

Regarding Claim 15, Martin discloses the time factor involved in replication see Fig. 5.

Regarding Claim 16-17, Martin discloses the volumes of storage units see Fig. 4.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 22-23 rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent Publication 2003/0135783 to Martin et al.(hereinafter Martin) in view of US Patent Publication 2004/0236907 to Hickman.

Regarding Claim 22-23, 25, 27-28, Martin does not explicitly disclose the stopping by disconnection of path and canceling of data. However, Hickman discloses the stopping by disconnection of path and canceling of data see Fig. 2 & Par. 0076. It would be obvious to one having ordinary skill in the art at the time of the invention to include the stopping by disconnection of path and canceling of data in the invention of Martin in order to to have an parallel process as taught in Hickman see Fig. 2.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkat Perungavoor whose telephone number is 571-272-7213. The examiner can normally be reached on 8:30-5:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VP/ Venkat Perungavoor Examiner Art Unit 2132 January 18, 2008

GILBERTO BARRON TYLESUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100